IN THE CLAIMS

Please cancel Claims 5-10 without prejudice.

- 1. (Original) A method of manufacturing an active matrix pixel device comprising a thin film transistor (10) which includes a polycrystalline silicon channel (15) and doped source/drain regions (16,17), and a PIN diode (12) which includes a p-type doped region (26) and an n-type doped region (24) separated by an amorphous silicon intrinsic region (25), the method including the steps of:
- (a) forming a plurality of polycrystalline silicon islands on a substrate (14), one of which providing the transistor channel (15), and source/drain regions (16,17); and then,
- (b) depositing and patterning a layer of amorphous silicon to provide the intrinsic region (25) of the PIN diode (12) such that the intrinsic region overlies and contacts at least a part of one of the polycrystalline silicon islands which provides one of the p-type or n-type doped regions.
- 2. (Original) A method according to Claim 1, wherein the source/drain regions (16,17) and said one of the p-type or n-type doped regions (26,24) of the PIN diode are provided by the same polycrystalline silicon island.
- 3. (Original) A method according to claims 1 or 2, wherein the source/drain regions are doped n-type, and wherein the method further comprises the steps of:

- (c) depositing and patterning a layer of aluminium to define a top PIN diode contact (40) on the intrinsic region (25) of the PIN diode;
- (d) annealing the top PIN diode contact to cause aluminium ions to diffuse into the underlying intrinsic region to form the p-type doped region (26).
- 4. (Original) A method according to claim 3, further comprising the step of:
- (e) etching away part of the top PIN diode contact (40) so as to expose the PIN diode to input light (100).
- 5. (Cancelled)
- 6. (Cancelled)
- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Original) An active matrix electroluminescent display device according to any preceding claim, wherein the PIN diode serves to measure the light intensity output (100) from an associated display element and supply a signal to drive circuitry connected thereto to enable modulation of the light output in accordance with the measured light intensity.